

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/095287 A1

(51) International Patent Classification⁷: **C02F 3/04**, 3/10

(74) Agent: **PERNAT, Alfred**; Morcom Pernat, Suite 2, 334 Highbury Road, Mount Waverley, Victoria 3146 (AU).

(21) International Application Number:
PCT/AU2005/000443

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 30 March 2005 (30.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004901661 30 March 2004 (30.03.2004) AU

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **THE NEW WATER CORPORATION PTY LTD** [AU/AU]; 2 Melba Avenue, Lilydale, Victoria 3140 (AU).

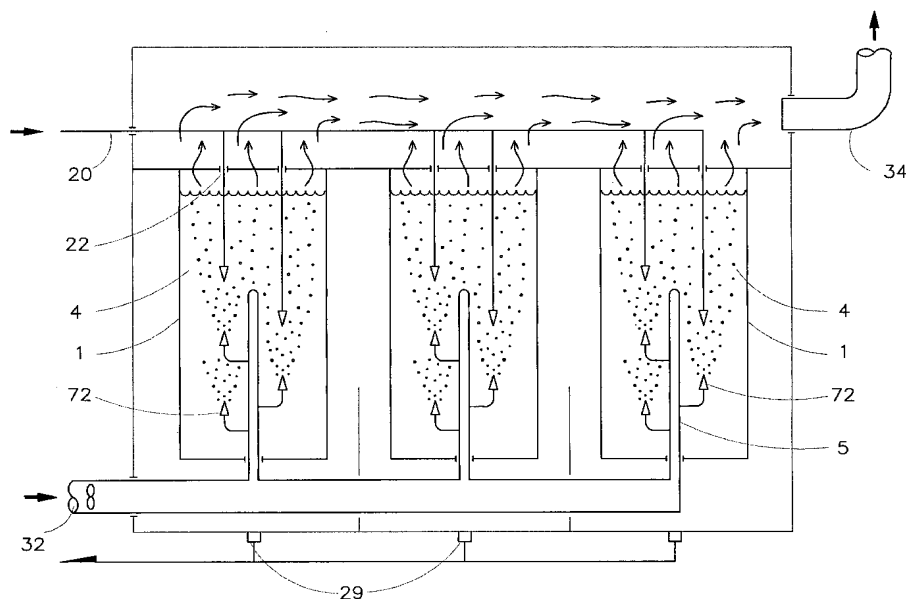
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **GORDON, Malcolm, Bruce** [AU/AU]; 20 Kemps Street, Ringwood East, Victoria 3135 (AU). **OLLIFF, Roy, Malcolm** [AU/AU]; 15 Clayton Avenue, North Balwyn, Victoria 3104 (AU).

Published:
— with international search report

[Continued on next page]

(54) Title: WATER TREATMENT



(57) Abstract: A method of treating water which comprises, forming a mixture of a particulate natural organic substrate with a flow control component, exposing the water to contact with oxygen containing gas over a large surface area, and causing the water to trickle through a column of the mixture, wherein the particulate natural organic substrate is adapted to support growth of aerobic bacteria and the flow control component is adapted to create a plurality of sinuous pathways for the water trickling through the column.

WO 2005/095287 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.